



SEQUENCE LISTING

<110> de CROMBRUGGHE, BENOIT
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ZHOU, XIN

<120> MASTER BONE FORMATION TRANSCRIPTION FACTOR:
COMPOSITIONS AND METHODS OF USE

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<160> 50

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<210> 1

<211> 2960

<212> DNA

<213> Mus musculus

<220>

<221> CDS

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Cys Leu Pro Ser Val Tyr Thr Ser Leu Asp Met Thr His Pro Tyr Gly	
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Gly Pro Ala Gln Pro Pro Leu Asn Pro Gln Leu Pro Thr Tyr Pro Ser	
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Asp Phe Ala Pro Leu Asn Pro Ala Pro Tyr Pro Ala Pro His Leu Leu	
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Gln Pro Gly Pro Gln His Val Leu Pro Gln Asp Val Tyr Lys Pro Lys	
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Ala Val Gly Asn Ser Gly Gln Leu Glu Gly Ser Gly Ala Ala Lys Pro	
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Pro Arg Gly Ala Gly Thr Gly Gly Ser Gly Gly Tyr Ala Gly Ser Gly	
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Ala Gly Arg Ser Thr Cys Asp Cys Pro Asn Cys Gln Glu Leu Glu Arg	
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Leu Gly Ala Ala Ala Ala Gly Leu Arg Lys Lys Pro Ile His Ser Cys	
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His Ile Pro Gly Cys Gly Lys Val Tyr Gly Lys Ala Ser His Leu Lys	
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Ala His Leu Arg Trp His Thr Gly Glu Arg Pro Phe Val Cys Asn Trp	
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 <212> PRT
 <213> Mus musculus

<400> 2
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 Leu Ala Met Leu Thr Ala Ala Cys Ser Lys Phe Gly Gly Ser Ser Pro
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 Leu Arg Asp Ser Thr Thr Leu Gly Lys Gly Gly Thr Lys Lys Pro Tyr
 35 40 45
 Ala Asp Leu Ser Ala Pro Lys Thr Met Gly Asp Ala Tyr Pro Ala Pro
 50 55 60
 Phe Ser Ser Thr Asn Gly Leu Leu Ser Pro Ala Gly Ser Pro Pro Ala
 65 70 75 80
 Pro Ala Ser Gly Tyr Ala Asn Asp Tyr Pro Pro Phe Pro His Ser Phe
 85 90 95
 Pro Gly Pro Thr Gly Ala Gln Asp Pro Gly Leu Leu Val Pro Lys Gly
 100 105 110
 His Ser Ser Ser Asp Cys Leu Pro Ser Val Tyr Thr Ser Leu Asp Met
 115 120 125
 Thr His Pro Tyr Gly Ser Trp Tyr Lys Ala Gly Ile His Ala Gly Ile
 130 135 140

Ser Pro Gly Pro Gly Asn Thr Pro Thr Pro Trp Trp Asp Met His Pro
 145 150 155 160
 Gly Gly Asn Trp Leu Gly Gly Gly Gln Gly Gln Gly Asp Gly Leu Gln
 165 170 175
 Gly Thr Leu Ser Thr Gly Pro Ala Gln Pro Pro Leu Asn Pro Gln Leu
 180 185 190
 Pro Thr Tyr Pro Ser Asp Phe Ala Pro Leu Asn Pro Ala Pro Tyr Pro
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 Ala Pro His Leu Leu Gln Pro Gly Pro Gln His Val Leu Pro Gln Asp
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 Val Tyr Lys Pro Lys Ala Val Gly Asn Ser Gly Gln Leu Glu Gly Ser
 225 230 235 240
 Gly Ala Ala Lys Pro Pro Arg Gly Ala Gly Thr Gly Gly Ser Gly Gly
 245 250 255
 Tyr Ala Gly Ser Gly Ala Gly Arg Ser Thr Cys Asp Cys Pro Asn Cys
 260 265 270
 Gln Glu Leu Glu Arg Leu Gly Ala Ala Ala Ala Gly Leu Arg Lys Lys
 275 280 285
 Pro Ile His Ser Cys His Ile Pro Gly Cys Gly Lys Val Tyr Gly Lys
 290 295 300
 Ala Ser His Leu Lys Ala His Leu Arg Trp His Thr Gly Glu Arg Pro
 305 310 315 320
 Phe Val Cys Asn Trp Leu Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp
 325 330 335
 Glu Leu Glu Arg His Val Arg Thr His Thr Arg Glu Lys Lys Phe Thr
 340 345 350
 Cys Leu Leu Cys Ser Lys Arg Phe Thr Arg Ser Asp His Leu Ser Lys
 355 360 365
 His Gln Arg Thr His Gly Glu Pro Gly Pro Gly Pro Pro Pro Ser Gly
 370 375 380
 Pro Lys Glu Leu Gly Glu Gly Arg Ser Val Gly Glu Glu Glu Ala Asn
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 Gly Gly Ser Pro Glu Gln Ser Asn Leu Leu Glu Ile
 420 425

<211> 14
<212> PRT
<213> Mus musculus

<400> 3
Ala His Gly Gly Ser Pro Glu Gln Ser Asn Leu Leu Glu Ile
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<210> 4
<211> 85
<212> PRT
<213> Mus musculus

<400> 4
Ile His Ser Cys His Ile Pro Gly Cys Gly Lys Val Tyr Gly Lys Ala
1 5 10 15
Ser His Leu Lys Ala His Leu Arg Trp His Thr Gly Glu Arg Pro Phe
20 25 30
Val Cys Asn Trp Leu Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
35 40 45
Leu Glu Arg His Val Arg Thr His Thr Arg Glu Lys Lys Phe Thr Cys
50 55 60
Leu Leu Cys Ser Lys Arg Phe Thr Arg Ser Asp His Leu Ser Lys His
65 70 75 80
Gln Arg Thr His Gly
85

<210> 5
<211> 244
<212> PRT
<213> Mus musculus

<400> 5
Phe Gly Gly Ser Ser Pro Leu Arg Asp Ser Thr Thr Leu Gly Lys Gly
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Gly Thr Lys Lys Pro Tyr Ala Asp Leu Ser Ala Pro Lys Thr Met Gly
20 25 30
Asp Ala Tyr Pro Ala Pro Phe Ser Ser Thr Asn Gly Leu Leu Ser Pro
35 40 45
Ala Gly Ser Pro Pro Ala Pro Ala Ser Gly Tyr Ala Asn Asp Tyr Pro
50 55 60
Pro Phe Pro His Ser Phe Pro Gly Pro Thr Gly Ala Gln Asp Pro Gly
65 70 75 80
Leu Leu Val Pro Lys Gly His Ser Ser Ser Asp Cys Leu Pro Ser Val
85 90 95

Tyr Thr Ser Leu Asp Met Thr His Pro Tyr Gly Ser Trp Tyr Lys Ala
 100 105 110
 Gly Ile His Ala Gly Ile Ser Pro Gly Pro Gly Asn Thr Pro Thr Pro
 115 120 125
 Trp Trp Asp Met His Pro Gly Gly Asn Trp Leu Gly Gly Gly Gln Gly
 130 135 140
 Gln Gly Asp Gly Leu Gln Gly Thr Leu Ser Thr Gly Pro Ala Gln Pro
 145 150 155 160
 Pro Leu Asn Pro Gln Leu Pro Thr Tyr Pro Ser Asp Phe Ala Pro Leu
 165 170 175
 Asn Pro Ala Pro Tyr Pro Ala Pro His Leu Leu Gln Pro Gly Pro Gln
 180 185 190
 His Val Leu Pro Gln Asp Val Tyr Lys Pro Lys Ala Val Gly Asn Ser
 195 200 205
 Gly Gln Leu Glu Gly Ser Gly Ala Ala Lys Pro Pro Arg Gly Ala Gly
 210 215 220
 Thr Gly Gly Ser Gly Gly Tyr Ala Gly Ser Gly Ala Gly Arg Ser Thr
 225 230 235 240
 Cys Asp Cys Pro

<210> 6
 <211> 166
 <212> PRT
 <213> Mus musculus

<400> 6
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 Gly Thr Lys Lys Pro Tyr Ala Asp Leu Ser Ala Pro Lys Thr Met Gly
 20 25 30
 Asp Ala Tyr Pro Ala Pro Phe Ser Ser Thr Asn Gly Leu Leu Ser Pro
 35 40 45
 Ala Gly Ser Pro Pro Ala Pro Ala Ser Gly Tyr Ala Asn Asp Tyr Pro
 50 55 60
 Pro Phe Pro His Ser Phe Pro Gly Pro Thr Gly Ala Gln Asp Pro Gly
 65 70 75 80
 Leu Leu Val Pro Lys Gly His Ser Ser Ser Asp Cys Leu Pro Ser Val
 85 90 95
 Tyr Thr Ser Leu Asp Met Thr His Pro Tyr Gly Ser Trp Tyr Lys Ala

100	105	110
Gly Ile His Ala Gly Ile Ser Pro Gly Pro Gly Asn Thr Pro Thr Pro		
115	120	125
Trp Trp Asp Met His Pro Gly Gly Asn Trp Leu Gly Gly Gly Gln Gly		
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Gln Gly Asp Gly Leu Gln Gly Thr Leu Ser Thr Gly Pro Ala Gln Pro		
145	150	155
Pro Leu Asn Pro Gln Leu		
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<210> 7

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 7

Ile His Ser Cys His Ile Pro Gly Cys Gly Lys Val Tyr Gly Lys Ala
1 5 10 15

Ser His Leu Lys Ala His Leu Arg Trp His Thr Gly Glu Arg Pro Phe
20 25 30

Val Cys Asn Trp Leu Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
35 40 45

Leu Glu Arg His Val Arg Thr His Thr Arg Glu Lys Lys Phe Thr Cys
50 55 60

Leu Leu Cys Ser Lys Arg Phe Thr Arg Ser Asp His Leu Ser Lys His
65 70 75 80

Gln Arg Thr His Gly
85

<210> 8

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 8

Gln His Ser Cys His Ile Pro Gly Cys Gly Lys Val Tyr Gly Lys Thr
1 5 10 15

Ser His Leu Arg Ala His Leu Arg Trp His Ser Gly Glu Arg Pro Phe
 20 25 30
 Ile Cys Asn Trp Met Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
 35 40 45
 Leu Gln Arg His Arg Arg Thr His Thr Gly Glu Lys Lys Phe Val Cys
 50 55 60
 Pro Glu Cys Ser Lys Arg Phe Met Arg Ser Asp His Leu Ala Lys His
 65 70 75 80
 Ile Lys Thr His Gln
 85

<210> 9

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 9

Gln His Val Cys His Ile Glu Gly Cys Gly Lys Val Tyr Gly Lys Thr
 1 5 10 15
 Ser His Leu Arg Ala His Leu Arg Trp His Thr Gly Glu Arg Pro Phe
 20 25 30
 Ile Cys Asn Trp Met Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
 35 40 45
 Leu Gln Arg His Arg Arg Thr His Thr Gly Glu Lys Arg Phe Glu Cys
 50 55 60
 Pro Glu Cys Ser Lys Arg Phe Met Arg Ser Asp His Leu Ser Lys His
 65 70 75 80
 Val Lys Thr His Gln
 85

<210> 10

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 10

Gln His Ile Cys His Ile Gln Gly Cys Gly Lys Val Tyr Gly Lys Thr
 1 5 10 15

Ser His Leu Arg Ala His Leu Arg Trp His Thr Gly Glu Arg Pro Phe
 20 25 30
 Met Cys Asn Trp Ser Tyr Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
 35 40 45
 Leu Gln Arg His Lys Arg Thr His Thr Gly Glu Lys Lys Phe Ala Cys
 50 55 60
 Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp His Leu Ser Lys His
 65 70 75 80
 Ile Lys Thr His Gln
 85

<210> 11
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 11
 Lys His Val Cys His Ile Pro Asp Cys Gly Lys Thr Phe Arg Lys Thr
 1 5 10 15
 Ser Leu Leu Arg Ala His Val Arg Leu His Thr Gly Glu Arg Pro Phe
 20 25 30
 Val Cys Asn Trp Phe Phe Cys Gly Lys Arg Phe Thr Arg Ser Asp Glu
 35 40 45
 Leu Gln Arg His Ala Arg Thr His Thr Gly Asp Lys Arg Phe Glu Cys
 50 55 60
 Ala Gln Cys Gln Lys Arg Phe Met Arg Ser Asp His Leu Thr Lys His
 65 70 75 80
 Tyr Lys Thr His Leu
 85

<210> 12
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 12
 Lys His Lys Cys His Ile Tyr Ala Cys Glu Lys Val Tyr Gly Lys Ser

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Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Arg Pro Phe			
20	25	30	
Ala Cys Ser Trp Gln Glu Cys Asn Lys Lys Phe Ala Arg Ser Asp Glu			
35	40	45	
Leu Ala Arg His Tyr Arg Thr His Thr Gly Glu Lys Lys Phe Ser Cys			
50	55	60	
Pro Ile Cys Glu Lys Arg Phe Met Arg Ser Asp His Leu Thr Lys His			
65	70	75	80
Ala Arg Arg His Ala			
85			

<210> 13
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 13
Arg His Lys Cys Pro Tyr Ser Gly Cys Gly Lys Val Tyr Gly Lys Ser
1 5 10 15
Ser His Leu Lys Ala His Tyr Arg Val His Thr Gly Glu Arg Pro Phe
20 25 30
Pro Cys Thr Trp Pro Asp Cys Leu Lys Lys Phe Ser Arg Ser Asp Glu
35 40 45
Leu Thr Arg His Tyr Arg Thr His Thr Gly Glu Lys Gln Phe Arg Cys
50 55 60
Pro Leu Cys Glu Lys Arg Phe Met Arg Ser Asp His Leu Thr Lys His
65 70 75 80
Ala Arg Arg His Thr
85

<210> 14
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 14

Ser His Ile Cys Ser His Pro Gly Cys Gly Lys Thr Tyr Phe Lys Ser
 1 5 10 15
 Ser His Leu Lys Ala His Val Arg Thr His Thr Gly Glu Lys Pro Phe
 20 25 30
 Ser Cys Ser Trp Lys Gly Cys Glu Arg Arg Phe Ala Arg Ser Asp Glu
 35 40 45
 Leu Ser Arg His Arg Arg Thr His Thr Gly Glu Lys Lys Phe Ala Cys
 50 55 60
 Pro Met Cys Asp Arg Arg Phe Met Arg Ser Asp His Leu Thr Lys His
 65 70 75 80
 Ala Arg Arg His Leu
 85

<210> 15
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 15
 Asn Tyr Val Cys Ser Phe Pro Gly Cys Arg Lys Thr Tyr Phe Lys Ser
 1 5 10 15
 Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Phe
 20 25 30
 Asn Cys Ser Trp Asp Gly Cys Asp Lys Lys Phe Ala Arg Ser Asp Glu
 35 40 45
 Leu Ser Arg His Arg Arg Thr His Thr Gly Glu Lys Lys Phe Val Cys
 50 55 60
 Pro Val Cys Asp Arg Arg Phe Met Arg Ser Asp His Leu Thr Lys His
 65 70 75 80
 Ala Arg Arg His Met
 85

<210> 16
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 16
 Ile His Arg Cys Asp Phe Glu Gly Cys Asn Lys Val Tyr Thr Lys Ser
 1 5 10 15
 Ser His Leu Lys Ala His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr
 20 25 30
 Lys Cys Thr Trp Glu Gly Cys Thr Trp Lys Phe Gly Arg Ser Asp Glu
 35 40 45
 Leu Thr Arg His Tyr Arg Lys His Thr Gly Val Lys Pro Phe Lys Cys
 50 55 60
 Ala Asp Cys Asp Arg Arg Phe Ser Arg Ser Asp His Leu Ala Leu His
 65 70 75 80
 Arg Arg Arg His Met
 85

<210> 17
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 17
 Ile His Phe Cys Asp Tyr Asn Gly Cys Thr Lys Val Tyr Thr Lys Ser
 1 5 10 15
 Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr
 20 25 30
 Lys Cys Thr Trp Glu Gly Cys Asp Trp Arg Phe Ala Arg Ser Asp Glu
 35 40 45
 Leu Thr Arg His Tyr Arg Lys His Thr Gly Ala Lys Pro Phe Gln Cys
 50 55 60
 Met Val Cys Gln Arg Ser Phe Ser Arg Ser Asp His Leu Ala Leu His
 65 70 75 80
 Met Lys Arg His Gln
 85

<210> 18
 <211> 85
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 18

Ala His Thr Cys Gly His Glu Gly Cys Gly Lys Ser Tyr Ser Lys Ser
1 5 10 15
Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr
20 25 30
Ala Cys Ser Trp Asp Gly Cys Asp Trp Arg Phe Ala Arg Ser Asp Glu
35 40 45
Leu Thr Arg His Tyr Arg Lys His Thr Gly His Arg Pro Phe Cys Cys
50 55 60
Gly Leu Cys Pro Arg Ala Phe Ser Arg Ser Asp His Leu Ala Leu His
65 70 75 80
Met Lys Arg His Leu
85

<210> 19

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 19

Thr His Thr Cys Ser Tyr Thr Asn Cys Gly Lys Thr Tyr Thr Lys Ser
1 5 10 15
Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr
20 25 30
His Cys Asn Trp Glu Gly Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu
35 40 45
Leu Thr Arg His Tyr Arg Lys His Thr Gly His Arg Pro Phe Gln Cys
50 55 60
His Leu Cys Asp Arg Ala Phe Ser Arg Ser Asp His Leu Ala Leu His
65 70 75 80
Met Lys Arg His Met
85

<210> 20

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Peptide

<400> 20

Val His Arg Cys His Phe Asn Gly Cys Arg Lys Val Tyr Thr Lys Ser
1 5 10 15

Ser His Leu Lys Ala His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr
20 25 30

Arg Cys Ser Trp Glu Gly Cys Glu Trp Arg Phe Ala Arg Ser Asp Glu
35 40 45

Leu Thr Arg His Phe Arg Lys His Thr Gly Ala Lys Pro Phe Lys Cys
50 55 60

Ser His Cys Asp Arg Cys Phe Ser Arg Ser Asp His Leu Ala Leu His
65 70 75 80

Met Lys Arg His Phe
85

<210> 21

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 21

Thr His Thr Cys Asp Tyr Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser
1 5 10 15

Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr
20 25 30

His Cys Asp Trp Asp Gly Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu
35 40 45

Leu Thr Arg His Tyr Arg Lys His Thr Gly His Arg Pro Phe Gln Cys
50 55 60

Gln Lys Cys Asp Arg Ala Phe Ser Arg Ser Asp His Leu Ala Leu His
65 70 75 80

Met Lys Arg His Phe
85

<210> 22

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 22

Ile His Arg Cys Asp Tyr Asp Gly Cys Asn Lys Val Tyr Thr Lys Ser
1 5 10 15

Ser His Leu Lys Ala His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr
20 25 30

Lys Cys Thr Trp Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp Glu
35 40 45

Leu Thr Arg His Phe Arg Lys His Thr Gly Ile Lys Pro Phe Gln Cys
50 55 60

Pro Asp Cys Asp Arg Ser Phe Ser Arg Ser Asp His Leu Ala Leu His
65 70 75 80

Arg Lys Arg His Met
85

<210> 23

<211> 431

<212> PRT

<213> Homo sapiens

<400> 23

Met Ala Ser Ser Leu Leu Glu Glu Glu Val His Tyr Gly Ser Ser Pro
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Leu Ala Met Leu Thr Ala Ala Cys Ser Lys Phe Gly Gly Ser Ser Pro
20 25 30

Leu Arg Asp Ser Thr Thr Leu Gly Lys Ala Gly Thr Lys Lys Pro Tyr
35 40 45

Ser Val Gly Ser Asp Leu Ser Ala Ser Lys Thr Met Gly Asp Ala Tyr
50 55 60

Pro Ala Pro Phe Thr Ser Thr Asn Gly Leu Leu Ser Pro Ala Gly Ser
65 70 75 80

Pro Pro Ala Pro Thr Ser Gly Tyr Ala Asn Asp Tyr Pro Pro Phe Ser
85 90 95

His Ser Phe Pro Gly Pro Thr Gly Thr Gln Asp Pro Gly Leu Leu Val
100 105 110

Pro Lys Gly His Ser Ser Ser Asp Cys Leu Pro Ser Val Tyr Thr Ser
115 120 125

Leu Asp Met Thr His Pro Tyr Gly Ser Trp Tyr Lys Ala Gly Ile His
130 135 140

Ala Gly Ile Ser Pro Gly Pro Gly Asn Thr Pro Thr Pro Trp Trp Asp

145		150		155		160
Met His Pro Gly Gly Asn Trp Leu Gly Gly Gly Gln Gly Gln Gly Asp						
		165		170		175
Gly Leu Gln Gly Thr Leu Pro Thr Gly Pro Ala Gln Pro Pro Leu Asn						
		180		185		190
Pro Gln Leu Pro Thr Tyr Pro Ser Asp Phe Ala Pro Leu Asn Pro Ala						
		195		200		205
Pro Tyr Pro Ala Pro His Leu Leu Gln Pro Gly Pro Gln His Val Leu						
		210		215		220
Pro Gln Asp Val Tyr Lys Pro Lys Ala Val Gly Asn Ser Gly Gln Leu						
		225		230		240
Glu Gly Ser Gly Gly Ala Lys Pro Pro Arg Gly Ala Ser Thr Gly Gly						
		245		250		255
Ser Gly Gly Tyr Gly Gly Ser Gly Ala Gly Arg Ser Ser Cys Asp Cys						
		260		265		270
Pro Asn Cys Gln Glu Leu Glu Arg Leu Gly Ala Ala Ala Ala Gly Leu						
		275		280		285
Arg Lys Lys Pro Ile His Ser Cys His Ile Pro Gly Cys Gly Lys Val						
		290		295		300
Tyr Gly Lys Ala Ser His Leu Lys Ala His Leu Arg Trp His Thr Gly						
		305		310		320
Glu Arg Pro Phe Val Cys Asn Trp Leu Phe Cys Gly Lys Arg Phe Thr						
		325		330		335
Arg Ser Asp Glu Leu Glu Arg His Val Arg Thr His Thr Arg Glu Lys						
		340		345		350
Lys Phe Thr Cys Leu Leu Cys Ser Lys Arg Phe Thr Arg Ser Asp His						
		355		360		365
Leu Ser Lys His Gln Arg Thr His Gly Glu Pro Gly Pro Gly Pro Pro						
		370		375		380
Pro Ser Gly Pro Lys Glu Leu Gly Glu Gly Arg Ser Thr Gly Glu Glu						
		385		390		400
Glu Ala Ser Gln Thr Pro Arg Pro Ser Ala Ser Pro Ala Thr Pro Glu						
		405		410		415
Lys Ala Pro Gly Gly Ser Pro Glu Gln Ser Asn Leu Leu Glu Ile						
		420		425		430

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